IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): William Chen   Group Art Unit: Not Yet Assigned

Serial No.:   Unknown   Examiner: Not Yet Assigned

Filed: Herewith

Title: Video Codec System with Real-Time Complexity Adaptation and
               Region-of-Interest Coding

CERTIFICATION UNDER 37 CFR 1.10

"Express Mail" Mailing Label Number: EV311302115US

I hereby certify that this Information Disclosure Statement, and the documents referred to as enclosed therein are being deposited with the United States Postal Service in an envelope as "Express Mail Post Office to Addressee" under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450".

Dated: February 20, 2004   _____
                                              Ann P. George

INFORMATION DISCLOSURE STATEMENT

Mail Stop Patent Application
Commissioner for Patents
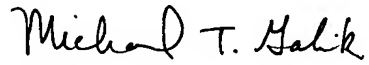P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. §1.56, and in accordance with the practice under 37 C.F.R. §1.97 and §1.98, the Examiner's attention is directed to the document(s) listed on the enclosed Form PTO-1449. A copy of each listed document is enclosed, except, in the case where this application is filed after June 30, 2003, copies of any U.S. patents and U.S. patent application publications are not enclosed.

This Information Disclosure Statement is being filed within three months of the U.S. filing date or before the mailing date of a first Office Action on the merits. No statement or fee is required (37 CFR §1.97(b)).

CONCLUSION

The Commissioner is hereby authorized to charge any additional fees, which may be required, or credit any over-payment to Deposit Account No.: 19-2746.

Respectfully submitted,

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Phone: (408) 952-6000
Facsimile: (408) 954-9058
Date: February 20, 2004

	DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	SERIAL NO. Unknown	ATTY DOCKET NO. AP190HO
	INFORMATION DISCLOSURE CITATION (USE SEVERAL SHEETS IF NECESSARY) PAGE 1 OF 2	APPLICANT(S) William Chen	
		FILING DATE Herewith	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS

E.I.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	6,519,662	2/11/03	Clapp, et al.			
	AB	2003/0020803	1/30/03	Yang, et al.			
	AC	2002/0199199	12/26/02	Rodriguez			
	AD	2002/0092030	7/11/02	Gu			
	AE	6,490,319	12/3/02	Yang			
	AF	2002/0141498	10/3/02	Martins, et al.			
	AG	6,178,204	1/23/01	Hazra			
	AH	6,356,664	3/12/02	Dunn, et al.			
	AI	2002/0196848	12/26/02	Roman			
	AJ	2003/0103678	6/5/03	Hsuan			
	AK	2003/0095598	5/22/03	Lee, et al.			

FOREIGN PATENT DOCUMENTS

E.I.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AR	*"New Fast Algorithms for the Estimation of Block Motion Vectors,"* Bede Liu and Andre Zaccarin, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 3, No. 2, pp. 148-157, April 1993
	AS	*"Computation Reduction for Motion Search in Low Rate Video Coders,"* J.- F. Yang, S.-C. Chang, and C.-Y. Chen, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 12, No. 10, pp. 948-951, October 2002.
	AT	*"Efficient Mode Selection for Block-Based Motion Compensated Video Coding,"* Thomas Wiegand, Michael Lightstone, T. George Campbell and Sanjit K. Mitra, Center for Information Processing Research, Department of Electrical and Computer Engineering University of California, Santa Barbara

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	SERIAL NO. Unknown	ATTY DOCKET NO. AP190HO
	APPLICANT(S) William Chen	
INFORMATION DISCLOSURE CITATION (USE SEVERAL SHEETS IF NECESSARY) PAGE 2 OF 2	FILING DATE Herewith	GROUP Not Yet Assigned

U.S. PATENT DOCUMENTS

E.I.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA1						
	AB1						
	AC1						
	AD1						
	AE1						
	AF1						
	AG1						
	AH1						
	AI1						
	AJ1						
	AK1						

FOREIGN PATENT DOCUMENTS

E.I.		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AL1						
	AM1						
	AN1						

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

	AO1	*"A New Three-Step Search Algorithm for Block Motion Estimation,"* R. Li, B. Zeng, and M. L. Liu, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 4, No. 4, pp. 438-442, August 1994.
	AP1	*"A New Diamond Search Algorithm for Fast Block-Matching Motion Estimation,"* Shan Zhu and K.K. Ma, IEEE Transaction on Circuits and Systems for Video Technology, Vol. 9, No. 2, pp. 287-290, February 2000.
	AQ1	*"Rate Control in DCT Video Coding for Low-Delay Communications",* Jordi Ribas-Corbera and S. Lei, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 9, No. 1, pp. 172-185, February 1999.
	AR1	*"A Novel Four-Step Search Algorithm for Fast Block Motion Estimation",* Lai-Man Po and Wing-Chung Ma, IEEE Transactions on Circuits and Systems for Video Technology, Vol. 6, No. 3, pp. 313-317, June 1996.
	AS1	*"JPEG 2000 and Region of Interest Coding", Andrew P. Bradley, Fred Stentiford,* Digital Image Computing Techniques and Applications, Melbourne, Australia, pp. 1-6, January 2002
	AT1	*"Embedded Foveation Image Coding",* IEEE Transactions on Image Processing, Vol. 10, No. 10, pp. 1397-1410, October 2001.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.